

Title (en)

Apparatus and method for injecting a settable compound into an inflatable in-ear device

Title (de)

Apparat und Methode zur Einspritzung einer aushärtbaren Verbindung in eine aufblasbare In-Ohr-Vorrichtung.

Title (fr)

Dispositif et méthode d'injection d'un composé durissable dans un dispositif intra-auriculaire gonflable

Publication

EP 2525752 A1 20121128 (EN)

Application

EP 10821524 A 20101005

Priority

- US 27253509 P 20091005
- US 28221309 P 20091231
- CA 2010001601 W 20101005

Abstract (en)

[origin: US2011079229A1] A method and apparatus for filling an expandable in-ear device having in-flow and out-flow canals including a plurality of chambers with elastic membranes in which the components of a settable polymer are held under high relative pressure. The component chambers are connected to a common mixing element which mixes the components before they are applied to the in-flow canal of an in-ear device. A sealed relief chamber is connected to the out-flow canal of the in-ear device and receives excessive mixed compound as it exits the in-ear device. The relief chamber is in contact with the elastic membranes of the component chambers such that when the elastic membranes contract the pressure in the relief chamber decreases, maintaining the pressure within a pre-determined pressure range.

IPC 8 full level

A61F 11/10 (2006.01); **H04R 1/10** (2006.01); **H04R 25/00** (2006.01); **H04R 25/02** (2006.01)

CPC (source: EP US)

A61F 11/10 (2013.01 - EP US); **H04R 1/1058** (2013.01 - EP US); **H04R 25/656** (2013.01 - EP US); **B29C 33/405** (2013.01 - US); **H04R 25/652** (2013.01 - EP US); **H04R 25/659** (2019.04 - EP US); **H04R 2225/023** (2013.01 - EP US); **H04R 2225/025** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2011079229 A1 20110407; **US 9107772 B2 20150818**; AU 2010305286 A1 20120531; AU 2010305286 B2 20140306; CA 2776903 A1 20110414; CN 102647966 A 20120822; CN 102647966 B 20140709; EP 2525752 A1 20121128; EP 2525752 A4 20160316; EP 2525752 B1 20200311; WO 2011041899 A1 20110414; ZA 201203230 B 20150826

DOCDB simple family (application)

US 92369810 A 20101005; AU 2010305286 A 20101005; CA 2010001601 W 20101005; CA 2776903 A 20101005; CN 201080054950 A 20101005; EP 10821524 A 20101005; ZA 201203230 A 20120504